



IES INDOOR REPORT
PHOTOMETRIC FILENAME : HBULED100DMVWH40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]
 [ISSUE DATE] 2018-1-17 12:03
 [MANUFAC] Mobern Lighting Co.
 [LUMCAT]
 [LUMINAIRE] HBULED100DMVWH40
 [LAMPCAT] L130-4070-Q
 [LAMP] DIM100A12S-2598
 [MORE] 120.3 V; 0.861 A; 0.997
 [TESTLAB]
 [TESTINST] GPM-1800B
 [TESTDIST] 11.672 m

CHARACTERISTICS

Lumens Per Lamp	13319 (1 lamp)
Total Lamp Lumens	13319
Luminaire Lumens	13319
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	103.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Point
Luminous Length (0-180)	0.00 m
Luminous Width (90-270)	0.00 m
Luminous Height	0.00 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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CANDELA TABULATION

	<u>0</u>	<u>30</u>	<u>60</u>	<u>90</u>	<u>120</u>	<u>150</u>	<u>180</u>	<u>210</u>	<u>240</u>	<u>270</u>
0	4224.303	4224.303	4224.303	4224.303	4224.303	4224.303	4224.303	4224.303	4224.303	4224.303
1	4228.370	4226.130	4223.890	4222.220	4220.170	4219.610	4225.670	4224.450	4225.850	4224.920
2	4228.930	4225.670	4223.520	4220.910	4217.930	4217.090	4223.800	4223.060	4224.640	4225.390
3	4228.460	4224.830	4222.500	4219.510	4215.790	4215.040	4221.190	4221.290	4224.270	4225.010
4	4226.970	4222.680	4220.630	4217.930	4214.110	4211.870	4218.680	4219.050	4222.780	4222.870
5	4223.520	4219.240	4217.650	4215.230	4212.250	4208.890	4215.410	4216.350	4219.700	4219.980
6	4217.930	4214.390	4212.990	4211.590	4209.360	4206.100	4211.220	4212.530	4215.790	4215.130
7	4210.010	4206.470	4206.280	4206.650	4205.260	4201.990	4206.470	4207.590	4209.730	4207.210
8	4199.670	4197.610	4196.780	4199.670	4198.550	4195.940	4200.130	4201.160	4201.900	4198.360
9	4187.740	4187.180	4186.710	4191.090	4190.160	4187.360	4192.490	4192.770	4191.560	4187.270
10	4174.780	4175.060	4175.530	4180.750	4180.470	4177.580	4183.080	4182.700	4179.440	4173.940
11	4160.430	4160.800	4163.690	4168.910	4169.470	4166.300	4171.800	4170.870	4165.370	4158.290
12	4144.030	4146.170	4148.690	4155.770	4155.120	4153.910	4159.130	4157.640	4150.830	4140.490
13	4128.280	4130.980	4134.520	4139.840	4141.420	4138.900	4143.470	4143.100	4132.570	4122.690
14	4111.690	4115.420	4119.330	4124.180	4126.040	4124.270	4128.090	4125.210	4114.580	4104.140
15	4094.270	4099.390	4102.560	4106.940	4109.460	4108.520	4111.690	4108.340	4096.220	4085.410
16	4076.370	4079.630	4085.880	4088.860	4092.030	4091.280	4094.730	4090.720	4077.770	4065.100
17	4057.730	4061.280	4067.800	4069.660	4073.110	4073.020	4074.510	4071.710	4056.060	4042.540
18	4036.670	4042.540	4048.140	4050.370	4054.190	4052.610	4055.780	4050.190	4036.210	4021.480
19	4016.820	4021.760	4026.420	4027.910	4031.920	4032.480	4036.670	4030.240	4015.330	4000.420
20	3995.860	4000.420	4004.990	4007.320	4010.390	4011.980	4016.450	4007.970	3993.530	3979.080
21	3973.860	3975.820	3983.270	3985.420	3988.590	3990.450	3995.200	3986.160	3969.670	3954.480
22	3948.510	3951.680	3957.460	3960.160	3963.240	3965.380	3971.070	3963.800	3946.740	3931.650
23	3923.450	3926.710	3932.860	3936.490	3939.570	3941.620	3947.400	3937.330	3923.170	3906.860
24	3896.510	3899.590	3906.760	3912.260	3914.500	3917.110	3923.350	3912.820	3897.910	3880.950
25	3867.720	3868.370	3878.900	3885.890	3888.410	3891.200	3897.910	3886.640	3872.190	3853.740
26	3833.890	3837.430	3845.540	3857.650	3858.120	3860.730	3867.900	3859.520	3841.340	3821.590
27	3800.710	3805.190	3813.670	3824.760	3828.950	3831.930	3839.480	3826.900	3811.340	3790.650
28	3766.050	3770.520	3779.470	3792.230	3798.290	3800.150	3809.290	3795.770	3779.840	3758.780
29	3729.790	3734.170	3744.150	3759.060	3765.110	3767.160	3777.790	3763.720	3742.560	3720.100
30	3691.870	3694.010	3707.240	3723.920	3727.560	3732.590	3740.880	3725.320	3705.840	3682.830
31	3648.620	3654.500	3665.680	3687.580	3692.050	3692.700	3704.820	3689.540	3668.200	3644.430
32	3606.880	3614.800	3625.420	3646.850	3654.030	3656.080	3668.010	3651.420	3629.050	3604.080
33	3564.190	3568.570	3584.880	3606.780	3615.730	3617.220	3628.120	3611.810	3586.840	3561.860
34	3515.730	3525.050	3541.640	3565.500	3574.440	3577.050	3583.950	3571.460	3540.340	3514.240
35	3469.050	3480.410	3493.180	3519.090	3528.410	3531.110	3541.830	3524.770	3496.160	3468.580
36	3422.540	3433.910	3447.610	3474.820	3484.330	3487.870	3498.680	3481.440	3450.690	3422.540
37	3373.520	3386.760	3399.710	3428.600	3438.940	3443.140	3454.130	3436.150	3404.090	3374.740
38	3323.200	3331.500	3351.340	3380.700	3392.070	3396.360	3407.450	3389.270	3356.000	3320.680
39	3265.890	3279.960	3295.710	3326.840	3338.390	3344.540	3354.890	3335.780	3301.110	3270.270
40	3212.210	3226.470	3244.080	3276.230	3287.790	3294.220	3306.240	3285.640	3250.330	3218.830
41	3157.510	3171.210	3190.400	3223.950	3236.070	3243.900	3255.820	3235.600	3198.320	3166.640
42	3100.750	3109.510	3135.230	3171.110	3183.230	3192.080	3198.230	3182.580	3138.960	3106.620
43	3042.320	3050.710	3079.600	3115.660	3128.990	3137.750	3145.110	3123.310	3084.260	3050.990
44	2976.900	2992.280	3015.950	3054.340	3067.480	3078.010	3089.480	3066.370	3026.570	2993.210
45	2915.490	2932.080	2956.960	2996.290	3010.820	3021.260	3032.350	3009.240	2967.580	2933.660
46	2853.610	2862.840	2896.380	2936.180	2952.110	2963.300	2968.520	2950.340	2901.510	2867.220
47	2782.880	2799.470	2832.920	2874.950	2885.570	2903.090	2909.060	2889.490	2839.630	2804.780
48	2717.920	2734.700	2763.030	2806.730	2824.070	2836.280	2848.300	2822.020	2777.470	2741.690
49	2651.940	2668.630	2697.240	2742.620	2760.880	2773.930	2786.610	2759.020	2714.660	2677.200
50	2584.290	2600.600	2630.230	2677.110	2695.090	2710.000	2718.020	2696.400	2643.740	2605.720
51	2515.510	2526.040	2563.130	2611.030	2629.300	2645.700	2652.780	2631.260	2576.740	2539.280
52	2438.160	2456.430	2494.450	2542.440	2555.580	2572.450	2587.920	2558.850	2510.670	2471.900
53	2367.620	2385.790	2418.310	2467.520	2487.650	2506.290	2522.780	2493.710	2444.970	2404.710

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54	2297.440	2316.920	2349.720	2399.490	2420.550	2439.370	2456.150	2426.330	2370.320	2329.220
55	2227.090	2238.640	2280.020	2329.880	2351.590	2371.440	2382.530	2352.430	2302.480	2260.820
56	2155.230	2168.470	2208.350	2260.630	2282.810	2303.870	2313.660	2283.280	2232.680	2190.370
57	2078.820	2097.640	2132.310	2183.380	2207.610	2227.920	2244.510	2214.040	2163.250	2120.290
58	2009.390	2028.030	2063.070	2114.510	2138.650	2160.080	2176.390	2145.080	2094.850	2044.620
59	1939.960	1952.450	1993.360	2046.390	2070.240	2092.330	2099.510	2075.460	2018.710	1975.470
60	1864.010	1882.560	1923.840	1969.780	1994.200	2016.570	2030.820	2001.000	1950.400	1907.350
61	1795.240	1814.250	1847.890	1900.260	1925.150	1948.350	1962.520	1931.760	1882.370	1838.200
62	1727.210	1746.030	1780.140	1831.860	1856.840	1880.880	1894.390	1863.640	1814.530	1764.300
63	1660.200	1672.220	1711.640	1765.040	1789.550	1814.710	1819.750	1796.450	1741.000	1697.570
64	1593.380	1605.870	1645.110	1697.570	1715.930	1747.150	1752.460	1722.640	1675.110	1631.410
65	1522.090	1540.170	1572.790	1624.600	1649.950	1674.090	1686.860	1658.340	1610.810	1567.480
66	1456.950	1476.430	1508.210	1560.300	1585.280	1609.510	1614.730	1592.830	1539.800	1496.930
67	1394.790	1406.720	1445.210	1495.630	1522.280	1544.930	1550.240	1522.470	1476.710	1433.930
68	1326.670	1344.940	1376.060	1427.130	1452.950	1476.240	1485.560	1457.790	1413.430	1371.220
69	1265.720	1284.180	1315.300	1364.970	1390.970	1413.150	1422.380	1394.980	1351.370	1309.520
70	1207.010	1223.790	1255.750	1304.120	1330.590	1352.390	1354.540	1333.750	1284.920	1243.450
71	1147.370	1159.770	1195.180	1244.660	1270.100	1291.820	1293.220	1266.470	1225.190	1184.180
72	1084.930	1102.450	1132.460	1180.270	1205.900	1226.580	1233.290	1207.480	1167.030	1126.500
73	1029.760	1045.980	1076.080	1122.300	1148.210	1168.530	1174.300	1148.860	1109.720	1069.280
74	974.310	990.720	1019.700	1065.270	1091.180	1111.210	1116.250	1091.830	1053.530	1008.330
75	921.010	931.820	965.370	1010.010	1035.910	1055.020	1053.620	1029.480	992.950	954.190
76	867.700	878.510	911.780	954.930	980.930	999.290	998.360	974.780	939.550	901.160
77	810.200	826.700	853.910	896.410	921.940	940.210	944.770	922.030	887.650	850.000
78	758.670	774.700	802.840	844.220	869.850	887.460	886.810	869.750	831.170	793.430
79	707.140	722.880	752.050	792.690	818.960	836.390	835.650	813.560	780.940	742.920
80	655.790	666.130	700.980	742.360	768.270	785.980	784.300	762.210	730.620	691.670
81	600.250	615.340	646.840	685.890	712.170	729.690	733.690	711.700	680.950	641.810
82	549.460	565.580	597.360	634.820	661.380	679.360	678.990	661.840	627.830	588.600
83	494.850	515.630	548.150	585.050	611.890	629.230	629.600	612.830	580.210	540.140
84	432.500	456.170	492.890	529.330	558.220	580.400	581.890	559.990	531.840	488.700
85	378.540	402.210	438.090	476.770	508.170	525.790	533.050	511.060	478.440	433.810
86	329.060	351.240	384.510	422.340	454.590	471.730	479.190	456.920	423.460	379.850
87	281.530	298.680	335.670	370.440	401.190	417.960	419.080	403.980	365.870	326.360
88	232.610	250.130	287.960	322.350	350.680	365.780	367.450	348.350	317.690	278.550
89	197.290	205.950	233.820	274.540	298.210	317.600	319.550	301.010	269.980	230.370
90	182.000	190.480	203.530	221.140	250.780	266.150	267.180	252.730	216.480	198.120
91	168.120	175.950	188.620	200.830	211.730	218.070	219.000	209.400	198.120	183.310
92	155.160	161.500	174.360	186.100	195.980	201.290	200.830	193.840	183.120	169.420
93	141.740	149.200	159.920	170.730	179.860	184.980	186.010	179.490	169.240	156.650
94	130.650	137.740	147.710	157.870	166.250	171.100	170.910	166.160	155.350	143.610
95	120.120	126.740	136.340	146.030	153.490	158.330	158.050	152.550	143.420	132.520
96	110.520	115.460	125.530	134.750	140.720	146.120	146.220	141.280	132.330	122.360
97	100.740	106.330	114.250	123.570	129.820	133.820	135.220	130.750	122.170	112.950
98	92.170	97.480	104.370	113.790	119.280	123.390	123.940	120.870	111.640	103.440
99	84.710	89.840	94.870	104.560	109.030	113.790	114.440	110.620	102.880	95.430
100	77.810	81.730	85.920	95.610	99.160	104.930	105.770	102.230	94.680	87.690
101	71.380	75.110	77.440	86.760	89.930	96.830	96.640	94.400	85.640	80.240
102	64.770	69.050	68.870	77.910	80.420	88.620	89.280	87.230	77.630	73.710
103	59.360	63.280	61.600	70.360	72.600	81.820	82.100	79.770	69.710	67.190
104	54.520	57.780	55.260	63.280	65.510	75.210	75.580	73.340	62.440	60.110
105	50.040	52.930	49.480	56.570	59.270	69.240	69.330	67.560	56.190	52.470
106	45.570	48.270	43.990	49.390	53.120	63.180	63.280	62.070	49.950	45.850
107	41.840	44.270	39.420	43.520	48.180	57.960	58.150	56.570	45.480	39.700
108	38.490	40.070	36.070	38.210	43.890	53.310	53.310	52.090	41.750	33.830
109	35.130	36.440	33.080	33.180	40.070	48.930	48.930	47.900	38.670	28.800

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110	32.240	33.460	30.380	28.610	37.280	44.360	44.450	43.520	36.070	26.000
111	29.820	30.570	28.330	25.630	34.760	40.720	40.720	39.890	33.640	23.860
112	27.580	27.770	26.190	23.480	32.340	37.280	37.460	36.530	31.410	22.180
113	25.630	25.440	24.420	21.710	30.290	34.110	34.010	33.360	29.170	20.780
114	23.760	23.200	22.740	20.410	28.330	31.310	31.310	30.660	27.310	19.660
115	22.180	21.620	21.150	19.290	26.280	28.520	28.890	28.240	25.530	19.010
116	20.600	20.320	19.850	18.450	24.880	26.190	26.280	25.910	23.760	18.450
117	19.660	19.200	18.640	17.890	23.480	24.230	24.320	23.760	22.550	18.170
118	19.010	18.640	17.990	17.520	22.180	22.460	22.550	22.270	21.430	18.360
119	18.640	18.270	17.610	17.610	20.970	21.150	21.060	21.150	20.410	18.550
120	18.820	18.450	17.990	18.080	20.130	20.130	19.760	20.130	19.760	19.010
121	19.380	18.920	18.360	18.450	19.480	19.290	19.100	19.380	19.200	19.200
122	19.850	19.380	18.820	18.820	19.290	19.200	19.100	19.290	19.290	19.850
123	20.320	19.850	19.380	19.380	19.380	19.380	19.660	19.660	19.850	20.320
124	20.870	20.320	19.760	19.760	19.850	19.660	19.940	20.040	20.220	20.780
125	21.150	20.870	20.220	20.220	20.410	20.130	20.410	20.410	20.780	21.250
126	21.900	21.340	20.780	20.780	20.870	20.600	21.060	20.970	21.250	21.710
127	22.090	21.810	21.250	21.250	21.250	21.250	21.430	21.530	21.710	22.270
128	22.550	22.270	21.620	21.710	21.810	21.620	21.900	21.990	22.090	22.550
129	23.110	22.740	22.180	22.180	22.270	22.180	22.270	22.370	22.550	23.020
130	23.480	23.200	22.550	22.650	22.550	22.650	22.650	22.740	23.110	23.480
131	23.860	23.480	22.930	23.300	23.020	23.020	23.110	23.300	23.480	23.950
132	24.230	23.950	23.300	23.580	23.580	23.390	23.580	23.670	23.950	24.510
133	24.700	24.320	23.760	23.950	24.140	23.950	24.140	24.140	24.230	24.880
134	25.160	24.790	24.140	24.510	24.420	24.320	24.420	24.600	24.790	25.350
135	25.530	25.250	24.600	24.980	24.980	24.790	24.880	25.160	25.160	25.810
136	26.000	25.630	25.070	25.630	25.350	25.350	25.440	25.530	25.630	26.190
137	26.280	26.000	25.530	26.000	25.720	25.720	25.720	26.000	26.090	26.750
138	26.840	26.560	25.910	26.470	26.280	26.090	26.190	26.470	26.470	27.030
139	27.210	26.930	26.280	26.840	26.650	26.560	26.750	26.750	26.840	27.580
140	27.580	27.400	26.750	27.210	26.930	26.840	27.030	27.030	27.120	28.050
141	28.050	27.770	27.310	27.490	27.400	27.400	27.400	27.490	27.580	28.330
142	28.330	28.140	27.580	27.680	27.770	27.860	27.770	27.960	27.960	28.800
143	28.610	28.520	28.050	28.240	28.240	28.140	28.140	28.330	28.330	28.980
144	28.980	28.800	28.330	28.610	28.610	28.610	28.520	28.610	28.700	29.360
145	29.450	29.260	28.800	28.980	29.080	28.890	29.080	28.980	28.980	29.820
146	30.010	29.540	29.080	29.260	29.360	29.450	29.360	29.360	29.630	30.190
147	30.290	29.910	29.450	29.730	29.820	30.010	29.730	29.820	29.910	30.470
148	30.750	30.290	29.820	30.100	30.190	30.190	30.190	30.190	30.470	30.850
149	31.220	30.570	30.190	30.470	30.380	30.660	30.570	30.750	30.940	31.220
150	31.590	30.940	30.570	30.850	30.850	31.030	30.850	31.030	31.220	31.690
151	31.780	31.130	30.850	31.220	31.310	31.310	31.220	31.310	31.690	31.960
152	32.150	31.500	31.590	31.500	31.870	31.690	31.590	31.590	31.870	32.340
153	32.430	31.870	31.960	32.060	32.340	31.960	31.780	31.960	32.340	32.620
154	32.800	32.060	32.240	32.340	32.520	32.240	31.960	32.340	32.620	32.900
155	33.180	32.430	32.520	32.710	32.900	32.620	32.430	32.620	32.900	33.270
156	33.460	32.620	32.800	32.990	33.080	33.080	32.800	32.900	33.180	33.360
157	33.640	32.990	32.990	33.360	33.460	33.550	33.080	32.990	33.460	33.830
158	33.920	33.270	33.360	33.740	33.740	34.110	33.460	33.360	33.830	34.010
159	34.290	33.640	33.830	34.010	34.110	34.200	33.830	33.640	34.110	34.390
160	34.480	33.920	34.200	34.200	34.390	34.570	34.010	34.010	34.390	34.670
161	34.760	34.200	34.570	34.570	34.950	34.850	34.290	34.290	34.670	35.040
162	35.130	34.480	34.850	34.760	35.130	35.230	34.480	34.670	34.950	35.230
163	35.410	34.670	35.040	35.230	35.510	35.690	34.760	34.850	35.230	35.600
164	35.510	35.040	35.410	35.510	35.790	35.880	35.130	35.130	35.410	35.790
165	35.880	35.410	35.510	35.690	36.070	35.970	35.320	35.230	35.690	35.970

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CANDELA TABULATION - (Cont.)

166	36.250	35.600	35.690	35.880	36.340	36.160	35.690	35.690	35.790	36.160
167	36.250	35.880	35.790	36.070	36.250	36.340	35.970	35.790	35.880	36.440
168	36.440	36.070	36.070	36.440	36.620	36.530	36.250	35.790	36.160	36.440
169	36.620	36.160	36.340	36.720	36.720	36.620	36.440	36.160	36.340	36.810
170	36.900	36.530	36.530	36.720	36.900	36.810	36.620	36.440	36.530	36.900
171	37.280	36.720	36.810	37.180	37.280	37.000	37.180	36.720	36.720	37.090
172	37.460	37.090	37.000	37.280	37.460	37.370	37.280	36.900	36.900	37.090
173	37.560	37.280	37.090	37.280	37.740	37.370	37.560	37.090	36.900	37.370
174	37.560	37.370	37.280	37.560	37.740	37.460	37.740	37.090	37.000	37.460
175	37.840	37.460	37.460	37.650	37.740	37.740	37.930	37.090	37.180	37.560
176	38.020	37.560	37.370	37.740	37.930	37.930	38.120	37.000	37.370	37.740
177	38.210	37.740	37.460	38.020	38.210	37.840	38.210	37.280	37.650	38.020
178	38.390	38.020	37.650	38.210	38.390	38.020	38.490	37.650	37.840	38.020
179	38.300	37.930	37.840	38.020	38.490	38.120	38.490	37.650	38.020	38.210
180	38.109	38.109	38.109	38.109	38.109	38.109	38.109	38.109	38.109	38.109

Vert. Horizontal Angles

	<u>300</u>	<u>330</u>	<u>360</u>
0	4224.303	4224.303	4224.303
1	4223.240	4223.340	4228.370
2	4224.080	4224.270	4228.930
3	4223.800	4224.080	4228.460
4	4222.400	4222.030	4226.970
5	4219.050	4218.580	4223.520
6	4213.550	4213.180	4217.930
7	4205.070	4204.320	4210.010
8	4194.820	4193.790	4199.670
9	4181.870	4181.030	4187.740
10	4167.330	4167.330	4174.780
11	4151.210	4152.790	4160.430
12	4134.340	4134.150	4144.030
13	4114.300	4116.820	4128.280
14	4096.220	4099.020	4111.690
15	4076.840	4080.380	4094.270
16	4057.550	4060.160	4076.370
17	4036.210	4041.050	4057.730
18	4016.080	4021.580	4036.670
19	3995.390	4001.820	4016.820
20	3974.420	3978.710	3995.860
21	3952.060	3956.340	3973.860
22	3926.520	3933.700	3948.510
23	3902.010	3908.910	3923.450
24	3875.270	3882.440	3896.510
25	3847.120	3854.020	3867.720
26	3813.200	3820.280	3833.890
27	3780.210	3787.290	3800.710
28	3745.540	3752.250	3766.050
29	3708.920	3711.810	3729.790
30	3666.420	3672.850	3691.870
31	3626.070	3633.430	3648.620
32	3584.230	3591.220	3606.880
33	3540.990	3547.230	3564.190
34	3491.600	3498.590	3515.730
35	3446.770	3451.900	3469.050
36	3399.430	3404.740	3422.540

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CANDELA TABULATION - (Cont.)

37	3350.790	3355.540	3373.520
38	3300.930	3300.560	3323.200
39	3244.920	3249.490	3265.890
40	3192.730	3196.090	3212.210
41	3139.240	3142.500	3157.510
42	3078.010	3080.620	3100.750
43	3022.190	3023.130	3042.320
44	2962.640	2963.950	2976.900
45	2901.600	2901.230	2915.490
46	2833.670	2832.270	2853.610
47	2770.670	2767.970	2782.880
48	2705.900	2703.670	2717.920
49	2640.200	2637.970	2651.940
50	2567.980	2564.720	2584.290
51	2499.670	2495.850	2515.510
52	2431.550	2426.980	2438.160
53	2363.800	2358.760	2367.620
54	2287.380	2281.970	2297.440
55	2218.330	2213.200	2227.090
56	2148.430	2141.910	2155.230
57	2078.540	2071.920	2078.820
58	2009.760	1995.690	2009.390
59	1933.250	1926.360	1939.960
60	1864.850	1858.420	1864.010
61	1796.730	1789.920	1795.240
62	1729.440	1716.300	1727.210
63	1656.380	1649.860	1660.200
64	1590.870	1584.160	1593.380
65	1527.500	1520.970	1522.090
66	1457.700	1450.990	1456.950
67	1395.730	1388.550	1394.790
68	1333.380	1326.110	1326.670
69	1272.710	1265.070	1265.720
70	1213.350	1200.120	1207.010
71	1148.860	1141.690	1147.370
72	1091.640	1084.930	1084.930
73	1035.540	1029.110	1029.760
74	980.750	968.910	974.310
75	921.570	915.230	921.010
76	869.380	862.950	867.700
77	818.220	811.980	810.200
78	762.300	754.480	758.670
79	712.260	702.940	707.140
80	661.660	650.850	655.790
81	612.450	600.250	600.250
82	559.050	545.450	549.460
83	508.450	491.960	494.850
84	452.720	436.140	432.500
85	398.020	381.800	378.540
86	346.670	327.750	329.060
87	294.110	280.230	281.530
88	246.490	231.490	232.610
89	202.320	197.470	197.290
90	185.640	181.070	182.000
91	171.750	167.280	168.120
92	158.610	154.420	155.160

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CANDELA TABULATION - (Cont.)

93	146.590	142.580	141.740
94	134.380	130.560	130.650
95	123.850	120.500	120.120
96	114.070	111.180	110.520
97	105.310	102.420	100.740
98	96.080	93.560	92.170
99	87.690	86.020	84.710
100	79.860	79.310	77.810
101	71.570	72.410	71.380
102	64.580	66.350	64.770
103	57.870	60.950	59.360
104	51.910	55.910	54.520
105	46.500	50.790	50.040
106	41.840	46.410	45.570
107	38.390	42.310	41.840
108	35.790	38.670	38.490
109	32.900	35.130	35.130
110	30.290	32.240	32.240
111	28.140	29.450	29.820
112	26.000	27.210	27.580
113	24.040	24.880	25.630
114	22.270	23.020	23.760
115	20.870	21.620	22.180
116	19.570	20.500	20.600
117	18.640	19.760	19.660
118	18.170	19.010	19.010
119	18.360	18.820	18.640
120	18.820	19.100	18.820
121	19.380	19.480	19.380
122	19.760	20.040	19.850
123	20.220	20.500	20.320
124	20.600	21.250	20.870
125	21.150	21.710	21.150
126	21.620	22.180	21.900
127	22.180	22.460	22.090
128	22.460	22.930	22.550
129	23.020	23.300	23.110
130	23.580	23.580	23.480
131	24.040	24.040	23.860
132	24.320	24.510	24.230
133	24.790	24.980	24.700
134	25.250	25.350	25.160
135	25.630	25.810	25.530
136	26.000	26.190	26.000
137	26.470	26.750	26.280
138	27.030	27.030	26.840
139	27.210	27.490	27.210
140	27.680	27.770	27.580
141	27.960	28.330	28.050
142	28.420	28.700	28.330
143	28.890	28.980	28.610
144	29.170	29.450	28.980
145	29.450	29.820	29.450
146	29.910	30.190	30.010
147	30.380	30.660	30.290
148	30.470	30.940	30.750

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CANDELA TABULATION - (Cont.)

149	30.940	31.310	31.220
150	31.310	31.500	31.590
151	31.690	31.870	31.780
152	31.960	32.150	32.150
153	32.340	32.430	32.430
154	32.520	32.710	32.800
155	32.990	32.900	33.180
156	33.270	33.270	33.460
157	33.740	33.640	33.640
158	34.010	33.920	33.920
159	34.290	34.390	34.290
160	34.670	34.850	34.480
161	34.950	35.040	34.760
162	35.230	35.230	35.130
163	35.410	35.690	35.410
164	35.510	35.970	35.510
165	35.880	36.340	35.880
166	36.070	36.440	36.250
167	36.250	36.530	36.250
168	36.620	36.720	36.440
169	36.720	36.900	36.620
170	36.900	37.280	36.900
171	37.000	37.650	37.280
172	37.280	37.840	37.460
173	37.280	38.120	37.560
174	37.460	38.020	37.560
175	37.740	37.840	37.840
176	37.840	38.020	38.020
177	37.840	37.930	38.210
178	37.930	38.120	38.390
179	38.020	38.210	38.300
180	38.109	38.109	38.109

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1559.25	11.70	11.70
0-30	3344.56	25.10	25.10
0-40	5531.43	41.50	41.50
0-60	9865.95	74.10	74.10
0-80	12491.58	93.80	93.80
0-90	12990.15	97.50	97.50
10-90	12588.86	94.50	94.50
20-40	3972.18	29.80	29.80
20-50	6255.94	47.00	47.00
40-70	5918.12	44.40	44.40
60-80	2625.63	19.70	19.70
70-80	1042.03	7.80	7.80
80-90	498.57	3.70	3.70
90-110	219.01	1.60	1.60
90-120	243.66	1.80	1.80
90-130	262.30	2.00	2.00
90-150	300.07	2.30	2.30
90-180	328.84	2.50	2.50
110-180	109.83	0.80	0.80
0-180	13318.99	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	401.29
10-20	1157.95
20-30	1785.31
30-40	2186.87
40-50	2283.76
50-60	2050.75
60-70	1583.6
70-80	1042.03
80-90	498.57
90-100	156.59
100-110	62.42
110-120	24.65
120-130	18.63
130-140	19.47
140-150	18.31
150-160	15.12
160-170	10.08
170-180	3.57

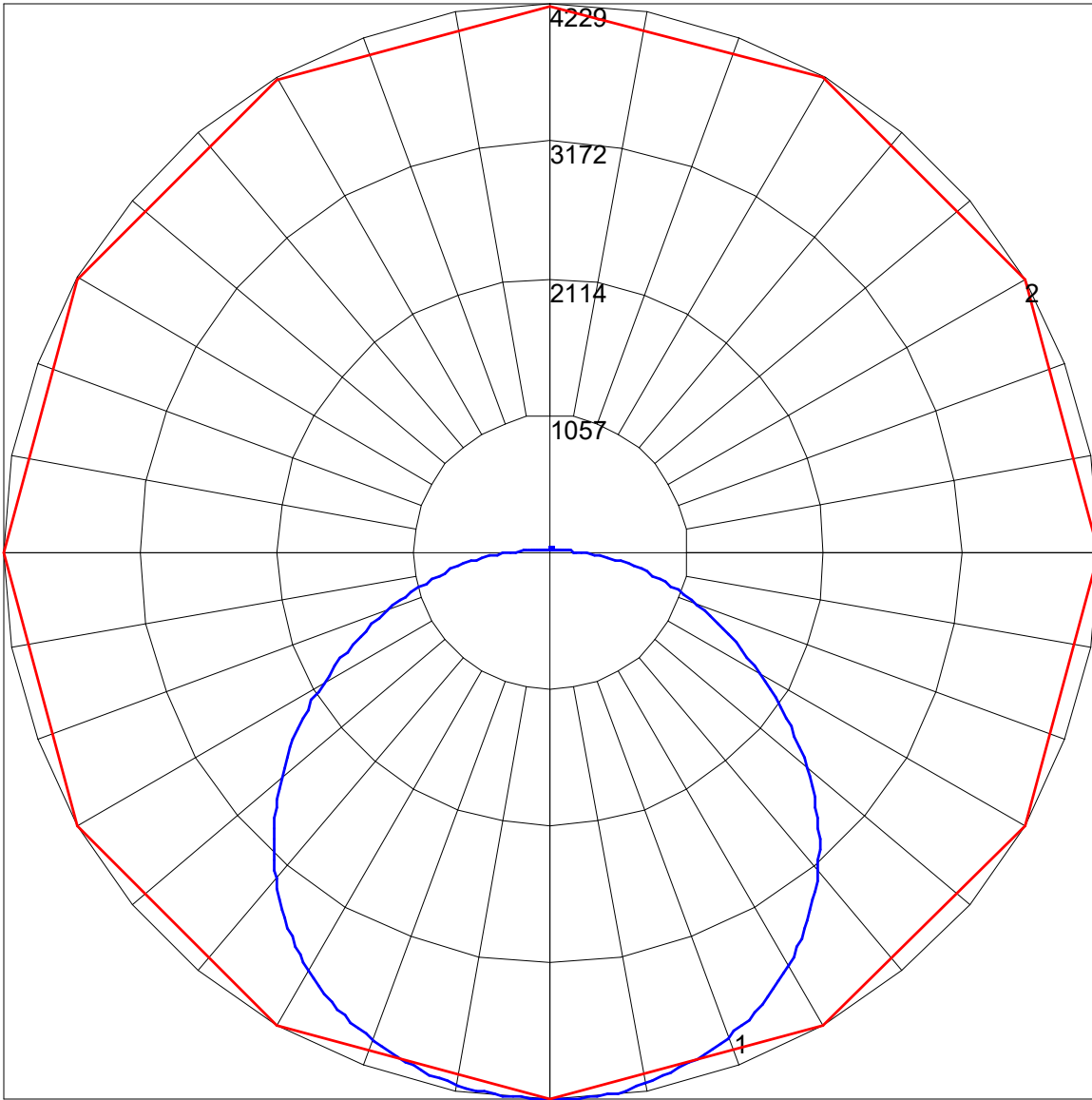
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
	RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
0	118	118	118	118	115	115	115	115	110	110	110	105	105	105	100	100	100	98
1	107	102	97	93	104	100	95	91	95	91	88	90	88	85	86	84	82	80
2	97	88	81	75	94	86	80	74	82	77	72	79	74	70	75	71	68	66
3	88	77	69	62	86	76	68	61	72	66	60	69	63	59	66	61	57	55
4	81	68	59	53	78	67	59	52	64	57	51	61	55	50	59	54	49	47
5	74	61	52	45	72	60	51	45	57	50	44	55	48	43	53	47	43	40
6	69	55	46	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35
7	63	50	41	35	62	49	40	34	47	39	34	45	39	33	44	38	33	31
8	59	45	37	31	57	44	36	31	43	36	30	42	35	30	40	34	30	28
9	55	42	33	28	54	41	33	27	39	32	27	38	32	27	37	31	27	25
10	52	38	30	25	50	38	30	25	37	29	25	35	29	24	34	28	24	22

POLAR GRAPH



Maximum Candela = 4228.93 Located At Horizontal Angle = 0, Vertical Angle = 2
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2) (Through Max. Cd.)